BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Estimate for Improvements and Asphalting to Roads at Doddabommasandra, Krishna Temple Surrounding areas in Ward No. 09 (Vidyaranyapura).

Job Code: 009-20-000086

Estimated Cost: Rs: 30.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements and Asphalting to Roads at Doddabommasandra, Krishna Temple Surrounding areas in Ward No. 09 (Vidyaranyapura).**

	009-20-000086	P-3726				Estimate Cost:		3000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	Reukamba Temple Main Road		2	85.00	0.45	0.45	34.43		
	2nd B Cross		2	75.00	0.45	0.45	30.38		
	6th Main Road		2	140.00	0.45	0.45	56.70		
	3rd C Cross		2	93.00	0.45	0.45	37.67		
	2nd C Cross		2	90.00	0.45	0.45	36.45		
	Berm Cutting								
	Reukamba Temple Main Road		2	85.00	0.90	0.20	30.60		
	2nd B Cross		2	75.00	0.90	0.20	27.00		
	6th Main Road		2	140.00	0.90	0.20	50.40		
	3rd C Cross		2	93.00	0.90	0.20	33.48		
	2nd C Cross		2	90.00	0.90	0.20	32.40		
							369.50	243.88	**90112.00**
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		243.88							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	For Drain								
	Reukamba Temple Main Road		2	85.00		1.35	229.50		
	2nd B Cross		2	75.00		1.35	202.50		
	6th Main Road		2	140.00		1.35	378.00		
	3rd C Cross		2	93.00		1.35	251.10		
	2nd C Cross		2	90.00		1.35	243.00		
	For Covering Slab						**1304.10**		
	Reukamba Temple Main Road		2	85.00		0.90	153.00		
	2nd B Cross		2	75.00		0.90	135.00		
	6th Main Road		2	140.00		0.90	252.00		
	3rd C Cross		2	93.00		0.90	167.40		
	2nd C Cross		2	90.00		0.90	162.00		
							869.40		
	For Open Space Consider 35%						-304.29		
							565.11		
							1869.21	111.30	**208043.00**
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	**111.30**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 35%			Vide Item No. 2			460.35		
	Basic Rate	700.00					**460.35**	742.00	**341578.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
4	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	Reukamba Temple Main Road		2x2	25.00		0.40	40.00		
	2nd B Cross		2x2	30.00		0.40	48.00		
	6th Main Road		2x2	55.00		0.40	88.00		
	3rd C Cross		2x2	30.00		0.40	48.00		
	2nd C Cross		2x2	28.00		0.40	44.80		
	Basic Rate	924.00					**268.80**	979.44	**263273.00**
	Area Weightage @ 6%	55.44							
	Total	**979.44**							
5	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No.34.11 of PWD SR 2018-19**	Cum							
	Bed Concrete								
	Reukamba Temple Main Road		2	25.00	0.45	0.10	2.25		
	2nd B Cross		2	30.00	0.45	0.10	2.70		
	6th Main Road		2	45.00	0.45	0.10	4.05		
	3rd C Cross		2	30.00	0.45	0.10	2.70		
	2nd C Cross		2	28.00	0.45	0.10	2.52		
	Coping Concrete								
	Reukamba Temple Main Road		2x2	25.00	0.20	0.10	2.00		
	2nd B Cross		2x2	30.00	0.20	0.10	2.40		
	6th Main Road		2x2	55.00	0.20	0.10	4.40		
	3rd C Cross		2x2	30.00	0.20	0.10	2.40		
	2nd C Cross		2x2	28.00	0.20	0.10	2.24		
	Basic Rate	5283.00					**27.66**	5599.98	**154895.00**
	Area Weightage @ 6%	316.98							
	Total	**5599.98**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.2 PWD SR 2018-19**	Sqm							
	B S Slab Covering								
	Reukamba Temple Main Road		2	25.00	0.90		45.00		
	2nd B Cross		2	30.00	0.90		54.00		
	6th Main Road		2	55.00	0.90		99.00		
	3rd C Cross		2	30.00	0.90		54.00		
	2nd C Cross		2	25.00	0.90		45.00		
	Basic Rate	912.00		165.00			**297.00**	966.72	**287116.00**
	Area Weightage @ 6%	54.72							
	Total	**966.72**							
7	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 26 / Item No. 5.22, PWD SR 2018-19**	m							
			550	3.00			**1650.00**	61.48	**101442.00**
	Basic Rate	58.00							
	Area Weightage @ 6%	3.48							
	Total	**61.48**							
8	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
	Reukamba Temple Main Road		1	85.00	5.00		425.00		
	2nd B Cross		1	75.00	4.50		337.50		
	6th Main Road		1	140.00	4.50		630.00		
	3rd C Cross		1	93.00	4.40		409.20		
	2nd C Cross		1	90.00	4.20		378.00		
	Total Qty						**2179.70**		
	Consider 35% of the Total Qty						**544.93**	95.40	**51986.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
9	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
	Reukamba Temple Main Road		1	85.00	5.00	0.25	106.25		
	2nd B Cross		1	75.00	4.50	0.25	84.38		
	6th Main Road		1	140.00	4.50	0.25	157.50		
	3rd C Cross		1	93.00	4.40	0.25	102.30		
	2nd C Cross		1	90.00	4.20	0.25	94.50		
	Total Qty						**544.93**		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Consider 35% of the Total Qty						**136.23**	2001.28	**272637.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	Reukamba Temple Main Road		1	85.00	5.00		425.00		
	2nd B Cross		1	75.00	4.50		337.50		
	6th Main Road		1	140.00	4.50		630.00		
	3rd C Cross		1	93.00	4.40		409.20		
	2nd C Cross		1	90.00	4.20		378.00		
	Total Qty						**2179.70**		
	Consider 35% of the Total Qty						**544.93**	28.62	**15596.00**
	Revised Rate as on 03.01.2020 Basic Rate	27.00							
	Area Weightage @ 6%	1.62							
	Total	**28.62**							
11	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum							
	Reukamba Temple Main Road		1	85.00	5.00	0.05	21.25		
	2nd B Cross		1	75.00	4.50	0.05	16.88		
	6th Main Road		1	140.00	4.50	0.05	31.50		
	3rd C Cross		1	93.00	4.40	0.05	20.46		
	2nd C Cross		1	90.00	4.20	0.05	18.90		
	Total Qty						**108.99**		
	Consider 35% of the Total Qty						**27.25**	5363.60	**146138.00**
	Revised Rate as on 03.01.2020 Basic Rate	5060.00							
	Area Weightage @ 6%	303.60							
	Total	**5363.60**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
12	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	Reukamba Temple Main Road		1	85.00	5.00		425.00		
	2nd B Cross		1	75.00	4.50		337.50		
	6th Main Road		1	140.00	4.50		630.00		
	3rd C Cross		1	93.00	4.40		409.20		
	2nd C Cross		1	90.00	4.20		378.00		
	Basic Rate	5.00					**2179.70**	5.30	**11552.00**
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD**	Sqm							
			Qty Vide Item No. 12				2179.70		
	Revised Rate as on 03.01.2020 Basic Rate	12.00					**2179.70**	12.72	**27726.00**
	Area Weightage @ 6%	0.72							
	Total	**12.72**							
14	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum							
	Reukamba Temple Main Road		1	85.00	5.00	0.040	17.00		
	2nd B Cross		1	75.00	4.50	0.040	13.50		
	6th Main Road		1	140.00	4.50	0.040	25.20		
	3rd C Cross		1	93.00	4.40	0.040	16.37		
	2nd C Cross		1	90.00	4.20	0.040	15.12		
	Revised Rate as on 03.01.2020 Basic Rate	7161.00					**87.19**	7590.66	**661814.00**
	Area Weightage @ 6%	429.66							
	Total	**7590.66**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **Page No. 182, Item No. 24.15 PWD SR 2018-19**	Sqm							
	Reukamba Temple Main Road		2	85.00	0.10		17.00		
	2nd B Cross		2	75.00	0.10		15.00		
	6th Main Road		2	140.00	0.10		28.00		
	3rd C Cross		2	93.00	0.10		18.60		
	2nd C Cross		2	90.00	0.10		18.00		
	Revised Basic Rate	429.00					**96.60**	454.74	43928.00
	Area Weightage @ 6%	25.74							
	Total	**454.74**							
	Sub Total								2677836.00
	GST @ 12%								321340.00
	Miscellaneous and other Charges	L/S							824.00
								Total	3000000.00
Rupees Thirty Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 This work included under 2019-20 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

21/04

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

21/04.

Administrative Approval

Accorded For RS 30.w Lakhs only
Head of A/C P 3726
CER NO : 128 Dt: 20.03.2020

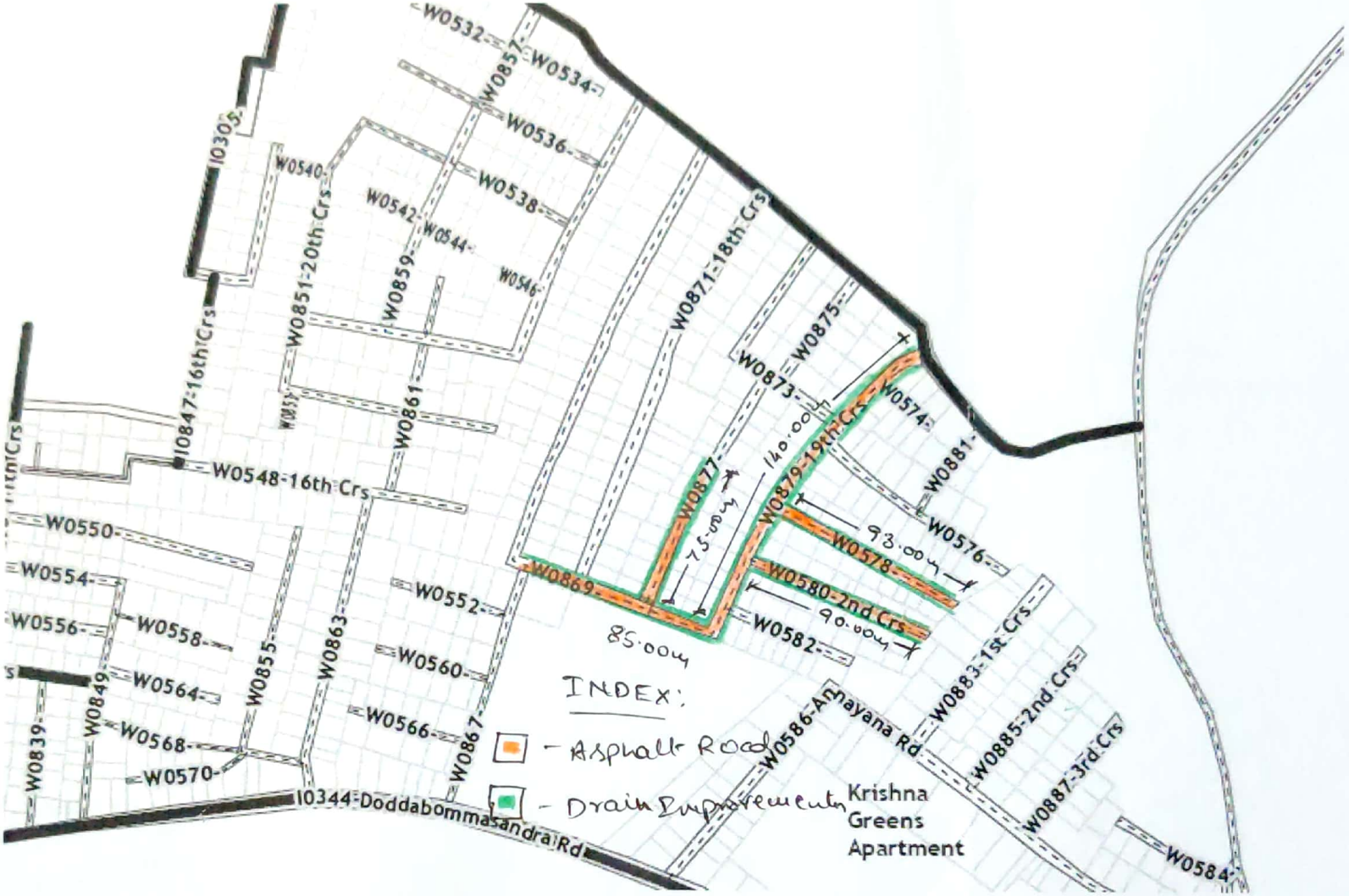
TA CE (YNK)

Technical Sanction

Accorded For RS 30.w Lakhs only
Head of A/C P 3726
CER NO : 316 Dt: 20.03.2020

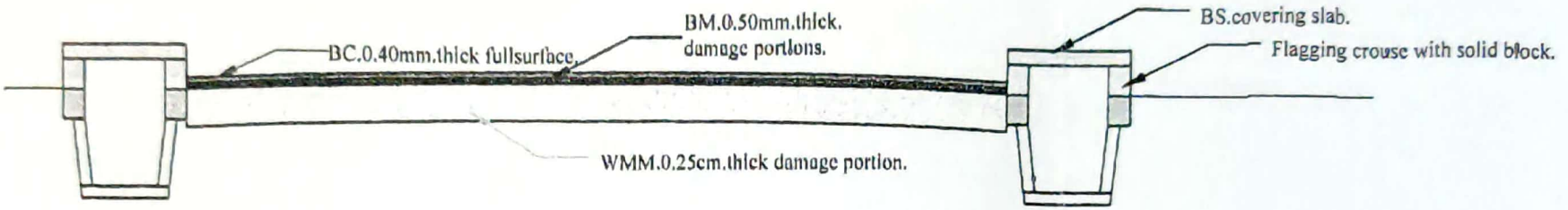
TA CE (YNK)

Name of work: Improvements and Asphalting to Roads at Doddabommasandra, Krishna Temple Surrounding areas in Ward No. 09 (Vidyaranyapura).



Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division



CROSS SECTION OF ASPHALT ROAD.

ASSISTANT ENGINEER.

ASSISTANT EXECUTIVE
ENGINEER.

Scanned with CamScanner

152 - BYATARAYANAPURA AC
WARD NAME : 9 - VIDYARANYAPURA

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Bruhat Bangalore Mahanagara Palike

BBMP ENGINEERING DEPARTMENT

Road Inventory Form

General

Zone	Ward No.	Ward Name
YELAHANKA	9	Vidyaranyapura
Street ID	**Street Name**	**Significant Landmark**
W0879	NA	KRISHNA TEMPLE ROAD
Unique Road No.	**Length of full Road(m)**	
9-W0879-80503	199	

Road Details

Road From	Road To
W0869	DEAD END
Type of Road	**Other Road Type**
Local	

Chainage at point (m)	Measured Width (m)	Existing Surface	Other Existing Surface	Remarks
0.00	5.50			
34.00	5.50			
34.00	8.00			
86.00	8.00			
86.00	4.50			
197.00	4.50			

Footpath

☐ Left

chainage at the point(m)	Type of Footpath	Other Footpath Type	Length (m)	Average Width(m)	No of Shoulder Drain	Kerb Chainages (m)	Remarks
	No Footpath		0.00000	0.00000	0	0.00000	

☐ Right

chainage at the point(m)	Type of Footpath	Other Footpath Type	Length (m)	Average Width(m)	No of Shoulder Drain	Kerb Chainages (m)	Remarks
	No Footpath		0.00000	0.00000	0	0.00000	

Drain

Particulars of side Drains

☐ **Left**

Drain Type	Other Drain Type	Construction Type	Other Construction Type	Flow Direction
Open		BS Slab		North

Other Flow Direction Type	Length (m)	Average Width(m)
	197.00	0.50

☐ **Right**

Drain Type	Other Drain Type	Construction Type	Other Construction Type	Flow Direction
Open		BS Slab		North

Other Flow Direction Type	Length (m)	Average Width(m)
	197.00	0.50

Culvert / Cross-Drainage details

Distance to Culvert from Road Start(m)	Type of Culvert	Other Culvert	Length/Span according to road width (m)	Width (m)
		0		

Existing Services

BESCOM	YES	**BWSSB**	YES
OFC		**Manholes**	YES
Others			

BRUHAT BANGALORE MAHANAGARA PALIKE
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Bruhat Bangalore Mahanagara Palike

BBMP ENGINEERING DEPARTMENT

Road Inventory Form

General

Zone	Ward No.	Ward Name
YELAHANKA	9	Vidyaranyapura
Street ID	**Street Name**	**Significant Landmark**
W0877	NA	KRISHNA TEMPLE ROAD
Unique Road No.	**Length of full Road(m)**	
9-W0877-80428	120	

Road Details

Road From	Road To
W0869	W0873
Type of Road	**Other Road Type**
Local	

Chainage at point (m)	Measured Width (m)	Existing Surface	Other Existing Surface	Remarks
0.00	7.00			VARIOUS
50.00	7.00			VARIOUS
50.00	4.50			VARIOUS
115.00	4.50			VARIOUS

Footpath

☐ Left

chainage at the point(m)	Type of Footpath	Other Footpath Type	Length (m)	Average Width(m)	No of Shoulder Drain	Kerb Chainages (m)	Remarks
	No Footpath		0.00000	0.00000	0	0.00000	

☐ Right

chainage at the point(m)	Type of Footpath	Other Footpath Type	Length (m)	Average Width(m)	No of Shoulder Drain	Kerb Chainages (m)	Remarks
	No Footpath		0.00000	0.00000	0	0.00000	

Drain

Particulars of side Drains

	Drain Type	Other Drain Type	Construction Type	Other Construction Type	Flow Direction
☐ Left	Open		BS Slab		North

Other Flow Direction Type	Length (m)	Average Width(m)
	115.00	0.50

	Drain Type	Other Drain Type	Construction Type	Other Construction Type	Flow Direction
☐ Right	Open		BS Slab		North

Other Flow Direction Type	Length (m)	Average Width(m)
	115.00	0.50

Culvert / Cross-Drainage details

Distance to Culvert from Road Start(m)	Type of Culvert	Other Culvert	Length/Span according to road width (m)	Width (m)
		0		

Existing Services

BESCOM	YES	**BWSSB**	YES
OFC		**Manholes**	YES
Others			

BRUHAT BANGALORE MAHANAGARA PALIKE
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Bruhat Bangalore Mahanagara Palike

BBMP ENGINEERING DEPARTMENT

Road Inventory Form

General

Zone	Ward No.	Ward Name
YELAHANKA	9	Vidyaranyapura
Street ID	**Street Name**	**Significant Landmark**
W0580	Whitefield Rd	KRISHNA TEMPLE ROAD
Unique Road No.	**Length of full Road(m)**	
9-W0580-80509	91	

Road Details

Road From	Road To
W0879	DEAD END
Type of Road	**Other Road Type**
Local	

Chainage at point (m)	Measured Width (m)	Existing Surface	Other Existing Surface	Remarks
0.00	4.30			
89.00	4.30			

Footpath

☐ Left

chainage at the point(m)	Type of Footpath	Other Footpath Type	Length (m)	Average Width(m)	No of Shoulder Drain	Kerb Chainages (m)	Remarks
	No Footpath		0.00000	0.00000	0	0.00000	

☐ Right

chainage at the point(m)	Type of Footpath	Other Footpath Type	Length (m)	Average Width(m)	No of Shoulder Drain	Kerb Chainages (m)	Remarks
	No Footpath		0.00000	0.00000	0	0.00000	

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Drain

Particulars of side Drains

	Drain Type	Other Drain Type	Construction Type	Other Construction Type	Flow Direction
☐ Left	Covered BS Slabs		RCC		East

Other Flow Direction Type	Length (m)	Average Width(m)
	89.00	0.60

	Drain Type	Other Drain Type	Construction Type	Other Construction Type	Flow Direction
☐ Right	Covered BS Slabs		RCC		East

Other Flow Direction Type	Length (m)	Average Width(m)
	89.00	0.60

Culvert / Cross-Drainage details

Distance to Culvert from Road Start(m)	Type of Culvert	Other Culvert	Length/Span according to road width (m)	Width (m)
	RCC deck slab		4.30	1.60

Existing Services

BESCOM	YES	**BWSSB**	YES
OFC		**Manholes**	YES
Others			

BRUHAT BANGALORE MAHANAGARA PALIKE
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Bruhat Bangalore Mahanagara Palike

BBMP ENGINEERING DEPARTMENT

Road Inventory Form

General

Zone	Ward No.	Ward Name
YELAHANKA	9	Vidyaranyapura
Street ID	**Street Name**	**Significant Landmark**
W0578	NA	KRISHNA TEMPLE ROAD
Unique Road No.	**Length of full Road(m)**	
9-W0578-80507	95	

Road Details

Road From	Road To
W0879	DEAD END
Type of Road	**Other Road Type**
Local	

Chainage at point (m)	Measured Width (m)	Existing Surface	Other Existing Surface	Remarks
0.00	4.00			
93.00	4.00			

Footpath

☐ Left

chainage at the point(m)	Type of Footpath	Other Footpath Type	Length (m)	Average Width(m)	No of Shoulder Drain	Kerb Chainages (m)	Remarks
	No Footpath		0.00000	0.00000	0	0.00000	

☐ Right

chainage at the point(m)	Type of Footpath	Other Footpath Type	Length (m)	Average Width(m)	No of Shoulder Drain	Kerb Chainages (m)	Remarks
	No Footpath		0.00000	0.00000	0	0.00000	

Drain

Particulars of side Drains

☐ **Left**

Drain Type	Other Drain Type	Construction Type	Other Construction Type	Flow Direction
Open		BS Slab		East

Other Flow Direction Type	Length (m)	Average Width(m)
	93.00	0.50

☐ **Right**

Drain Type	Other Drain Type	Construction Type	Other Construction Type	Flow Direction
Open		BS Slab		East

Other Flow Direction Type	Length (m)	Average Width(m)
	93.00	0.50

Culvert / Cross-Drainage details

Distance to Culvert from Road Start(m)	Type of Culvert	Other Culvert	Length/Span according to road width (m)	Width (m)
	RCC deck slab		4.00	1.60

Existing Services

BESCOM	YES	**BWSSB**	YES
OFC		**Manholes**	YES
Others			

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Zone: YELAHANKA **Ward No:** 9 **Ward Name:** Vidyaranyapura **Street ID:** W0578

Date: 18/04/2020 Time: 14:41:39